## ISSUE SLIP STAPLE AREA (for additional cross references)

|                           |               |        | 4        |
|---------------------------|---------------|--------|----------|
| POSITION                  | INITIALS      | ID NO. | DATE     |
|                           |               |        |          |
| FEE DETERMINATI N         |               |        |          |
| O.I.P.E. CLASSIFIER       | $\mathcal{A}$ |        | 2620     |
| FORMALITY REVIEW          | 1 M           | Je864  | - 3/2/61 |
| RESPONSE FORMALITY REVIEW |               |        |          |
|                           | 1.50          |        |          |

## INDEX OF CLAIMS

| ✓ Rejected N                   | Non-elected              |
|--------------------------------|--------------------------|
| ≡ Allowed                      | Interference             |
| - (Through numeral) Canceled A | Appeal                   |
| ÷Restricted 0                  | Objected                 |
| 선물 이 사람이 그리고 있다면 생활되다.         | Secretary and the second |

|     | . ', '   | •        | - /      | t. '     |               |          |          |          |          |                     |          |                |      |          | 3.5      |          |             | Ŷij.     |          |          | Ψ,       | . :-     |          | ÷.       | ب        | Ť.,           |               |            |            |          |   |          |                 |              |              |                   |            |              |             |
|-----|----------|----------|----------|----------|---------------|----------|----------|----------|----------|---------------------|----------|----------------|------|----------|----------|----------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|---------------|---------------|------------|------------|----------|---|----------|-----------------|--------------|--------------|-------------------|------------|--------------|-------------|
|     | Ci       | im       |          |          |               |          |          | 1        | C        | Claim Date          |          |                |      |          |          |          |             | 4:       | a        | elm'     | 1        | N.       | 51.5     | . 79     | , Da     | ite :         | 7 ;           | 10/28/2015 |            |          |   |          |                 |              |              |                   |            |              |             |
|     | Final    | Ortomal  | 40111    |          |               | 7        | 5.       |          | 77.      |                     |          |                |      | First    | Original | -        |             | i.       | 1        | 1        |          |          |          |          | 12.2     | \$            | Final         | Original   | 233        | 11.50    |   | 1000     | 1               | : u          |              | \$4<br>\$7<br>\$7 | 存機         | 2 C 7 6      | 4           |
|     |          | n        | 7        | ╁        | T.            | 1        | 1        | 1        | H        | ┰                   | 1        | t              | i    | 尸        | 51       | ╁        | ┢           | 1.       | +        | 1        | ÷        | $\vdash$ | t        | ╁        | +        | 1 4           | -             | 101        | -          | H        | -                                       | -        | +               | -            | 12           | H                 | H          |              | 1           |
|     |          | 2        | ۲        | t        | +             | +        | 1        | ╁        | ┢        | ┰                   | ╈        | ╁              | 1    | $\vdash$ | 52       |          | ١.          | ╁        | ╁        | Ť        | ١.       | ┰        | $\vdash$ | ╁        | ╁        | 12            |               | 102        |            | ١.       | ۱÷                                      | H        | ╀               | -            | 3            | H                 | H          |              | 1           |
| -0  | 2,       | 3        | H        | +-       | +             | ✝→       | 1        | +-       | ┢        | ╁╌                  | +        | †              | 1    | 1        | 53       |          | -           | H        |          | 1        | Η.       | ╁╌       | H        | H        | 1-       | 3             | 7             | 100        |            | 1        | 1                                       | $\vdash$ | -               | <del> </del> | 1            | 3                 | Н          | -            |             |
| ·   | -        | 4        | ╫        | ۲        | 1             | H        | 17.      | -        | -        | +                   | -        | ╁              | ١    | H        | 54       |          | ┢           | ١.       | +-       | -        | ┼-       | ┝        | ⊢        | ╆        | +        | ¥3            |               | 104        |            | 1-       |   | 35       | <del>ا</del> نا | -            | 14           | -                 |            | 1            |             |
| Ź   | ٦,       | 5        | ╫        | 1        | 1             | 1.       | T        | t.       | ١.       | 1                   | †        | 1              | 1    | $\vdash$ | 55       |          | ┪           | 1        | -        | +        | ✝        |          | $\vdash$ | ╁        | ۳        |               |               |            |            |          | 6                                       | +        | H               | ╁╌           | -            | -                 | Н          | Н            | ١.          |
| -   |          | В        | ╫        | 1        | 1             | 1        |          |          | T        | 1                   | t        | Ė              | 1    |          | 56       |          | 1           | ۲.       | 1        | t        | ✝        | T        | t        | ┪        | 1        | 17.           | 1             | 106        |            | -        | -                                       | -        |                 | ⊢            | 1,2          | ۳                 | Н          | H            | 1           |
| -   | 1        | 7        | т        | ✝        |               | T        | 1        | 1        | 1        | 1.                  | 1        | 1              | 1    | H        | 57       | 1        | T           |          | 1        | ✝        | 1        | _        | H        | t        | +        |               | -             | 107        |            | -        | 1                                       | -        | -               | -            | -            | Н                 | H          | H            | -           |
|     | 17       | 8        |          |          | $\vdash$      | 1        | ١.       | 1        | 1        |                     | Т        | Г              | 1    | Г        | 58       | 1        | Т           | -        |          | 1        | 1        |          | $\vdash$ | t        | 1        | 1 "           | 1             | 108        |            | -        |   |          | 1               | ┢            | 1            | -                 | H          |              | 1           |
| - ; |          | .8       |          |          |               | 1        |          |          |          | Π                   | Г        | -              | 1    |          | 59       |          |             | -        | 3        | Т        | П        | T        | Τ        |          | 1        |               | 1             | 109        | 2          | 3.       | ٠,                                      |          | 1.5             | 1            | -            |                   |            | 4            |             |
|     |          | 10       |          |          |               |          | 1.       | ١.       |          | Т                   | Γ        |                |      |          | 60       |          |             |          | Ι.       | T        |          | Г        | Γ        | T        | -        | ١,            | 13            | 110        |            | 42       |   |          | 13              | 14           | 1            | 142               | Н          | 1            | ٠,          |
| ,   | }        | Θ        |          |          |               |          | 4        | -        | 1        | 1.                  |          | ı.c.           | -    |          | 61       |          | . :         | 1.       |          | 1        | 1        |          | Г        |          |          | 1             | 1.            | 111        |            | 1        | -3                                      |          | 4               | 5:           | श            | -                 |            |              | :           |
| į   |          | 12       | -        | 1.       |               | Ŀ        |          | -        | 4        |                     | 1        | 12             | ] ". |          | 62       | Ι.       | 1           |          |          | П        | Ī        |          | Г        | П        |          | 3.4           | 8.            | 112        | 48.        | 3 -      | - 2                                     | 7.       | 4.              | Ξ,           | <u> A.</u> : | 1.5               |            |              | 3           |
| 4   | 7.5      | 13       |          | 3.       | 1             |          | 39       |          | -        |                     |          | ξ              | Ť    |          | 63       | ٠.       |             | -        | 2.       |          |          | - 2      |          |          |          | 1/4           | 1-2           | 113        | 2.         | \$5      | 50                                      | 1        |                 | 1.           | ir.          | 27                | 14         | 1            | ř           |
| ٠   | <b>)</b> | 14       | 6        |          |               | 4        | 15.      | :7       |          |                     |          | Ţ,             | 5    |          | 64       |          | <b>Ž</b> 4. | 100      |          | 7        |          |          | 27       |          | 34       |               | 8             | 114        | 15         | 絽        | 2                                       | Sis      | 雷               | 漂            | 4.           | - 1               |            | 3            | 3           |
| 1   | 1.5      | 15       | 6.       | 40       | 1             | U        | 7        | :::      | ,t)      | 1                   | , is     | -70            |      | 100      | 65       |          | 1           | 7        | 1        | 14.      | 2        |          | ٠.       |          | 47       | 3             | 15            | 115        | 43         | 12.      | 13                                      | ٤,       | A               | 14           | 1            | 1.7               | 4          | Į.           | 1           |
|     | 13.      | 16       | #3       | 1:       | 187           | 4        | $i_j$    | ÿ.       | 33       | 12                  | 22       | 7.             | 15:  | _        | 66       | .3       | 9           | 3        |          | 50       | 4        | 1        | 7.4      |          | 4        |               | 14            | 116        | 4          | 湖        | 27                                      | *        | 1,7             | -8           | 57           | 剩                 | 桃          | 'n           | 要な経路をはいることが |
|     | 1        | 17       | À        |          | 2:            | W        | ű,       | M        | 3.%      | 1                   | 3.1      | 3              | 1    | 7        | 67       | 75%      | ŧ           | 75       | 聚        | *        | 3/1      | ω,       | 3.       | 3        | 40       |               | Ъ,            | 117        | 2          | Æ        | 1                                       | *        | F36             | 続            | 14           | 验                 | 1          | 7            | Ġ.          |
|     |          | 18       | H        |          | Ex            | 14       | ž,       | 23       | 1.       | <i>†</i> -          | ¥        | A.P.           | 73.  | 5,5      | 68       | 3        | \$1.        | *        | 7×.      | 71       | ٠,٠      |          | 1/3      | 纪        | 35       | 1             | \$8           | 118        | 6          | 焳        | (f)                                     | Ψ.       | 15              | 验            | ţ,           | ý.                | Ų,         | ţÇ.          | Ý.          |
| i   | W.       | 19       | ٠.       | ) c      | 45            | Ä.       | ¥        | 4.       | Ŧ.       | $\chi_{\mathbb{M}}$ | ð.       |                | ic.  | 7        | 69       | 3        | *           | 123      | -do      | 5.       | 깢        | . 1      | 35       |          | 4.       |               |               | 119        | 4          | 经        | 1                                       | (3)      | Šc.             | 17           | 追            | N.                | 18         | 13           | £           |
|     |          | 8        | Ş        | SL       | 3             | 核        | 4        | £.       | 17       | 125                 | 39       | $f_{\kappa_i}$ | . 3  | Υ.       | 70       | 4.1      | - 2         | 2        | Ġ,       | 4        | ¢        | •        | #        |          | 17,      | 14            |               | 120        | 100        | 缕        | 級                                       | 35       | 1               | 14           | 14           | 層                 | ( )        | ¥.           | v           |
|     |          | 3        | ÷        |          | -12           | 1        |          | 13       | 4        |                     | 3 4 5    | 4,             | 7.   | ¥        | 71       |          |             | į.       |          | χ.       | 1        |          | 271      |          | 3.       | 7             | ·             | 121        | 160        | ž.       | 36                                      | 1        | 20              | 7.           | ĉ            | 3.5               | 7          | 377          | 7           |
|     |          | 22       | 1        | *        | 12.           | 15       | 57       | _<       |          | 1                   |          |                | ٠.   |          | 72       |          |             | •        | 51       | 10.5     |          |          | ٢        | ,        |          | 1             | <b>#</b>      | 122        | 14.        |          |   | +        | 1.1             | 34           |              |                   | 7)         | 机            | 3           |
| 1   | •        | 23       | L        | Ŀ        |               | 1        |          | - 2      |          | L                   |          |                |      | نا       | 73       | •        |             |          | ,        | :        |          |          |          |          | ٠.       | 1             | 25            | 123        |            | */       |   | (        |                 | 2            | 1            | 13                | 4          | **           | 1           |
|     |          | 20       | Ŋ,       | ŀ        | 14            |          | Ĺ        | -        | -0       | Ŀ                   |          |                |      | L        | 74       | ٠.       |             | 3        | - 1      | L        |          |          |          |          | ٠,       | <b>新聞を記りい</b> | ×             | 124        | ٠ <u>.</u> | 3        | 14                                      | 12       | 4               | 1            | 1            | 4.                | 7 .        | A *          | ,           |
| 4   |          | 25       | ٧.       | _        |               | Ĺ        | ::       | Ŀ        |          |                     | - 1      |                |      | <u></u>  | 75       |          | _           | -1       |          |          |          |          |          |          | Ш        | 7             |               | 125        | 7.         | 9        | 24                                      | 1.       | 4               |              | *            |                   |            | 1.           | 4           |
| 1   |          | 26       |          |          | Ц             | Ŀ        | ·        |          |          | Ŀ                   | L        | Ш              | 5    |          | 76       |          |             | Щ        |          |          |          |          |          |          |          | -7            |               | 126        | <u> </u>   |          | 4                                       |          |                 | 12           | 1.5          |                   | <u>.</u> . | Ÿ            |             |
| ٠   |          | 27       | _        |          | Ш             |          | -        | Ŀ        | •        |                     | Ш        |                |      | L        | 77       |          | _           |          |          |          |          | _        |          | Щ        |          |               |               | 127        |            | _        |   | V.       | 5               |              | 7.7          |                   |            | $\mathbb{Z}$ |             |
| ŀ   |          | 28       | _        |          | _             | Ш        | Ш        | Щ        | _        |                     | Щ        |                |      | L        | 78       | Щ        |             |          |          |          |          | _        |          |          | Ľ        |               |               | 128        | ك          |          | اــــــــــــــــــــــــــــــــــــــ | _        | ᆜ               |              | ᆜ            | 54                | 긔          | 긔            |             |
| .   | -        | 29       | _        | _        | _             | ш        |          | Ĥ        | _        |                     | Щ        | _              |      | L        | 79       |          | _           | Ш        |          | Ш        |          | _        |          |          | L        | ¢             |               | 129        | _          | _        |   |          | -               | _            | _            | ᅼ                 | 4          | 4            |             |
| ł   | $\dashv$ | 30<br>31 | _        | -        | -             | Ĥ        | -        | Н        |          | ш                   | Н        | Щ              |      | <u> </u> | 80       | _        |             | $\dashv$ | _        | _        |          | _        |          | Щ        |          |               |               | 130        |            | -4       | _                                       | ij       | Н               | 4            | -            | 긔                 | 4          |              | ġ.          |
| ŀ   | $\dashv$ | 32       | -        | _        | Н             |          | _        | Н        | _        |                     | Н        | Щ              |      | <u> </u> | 81       | Н        | _           | Н        |          | -        | 4        | _        | _        |          |          |               |               | 131        |            |          | 4                                       | 4        | $\dashv$        | 4            | _            | _                 | 4          | 4            | ٠.          |
| ł   | $\dashv$ | 33       | -        | _        | Н             | $\vdash$ | Н        | Н        |          | Н                   | Н        | Н              |      | <u> </u> | 82<br>83 | Н        | -           | Н        | _        | -        | $\dashv$ | $\dashv$ |          |          | Н        |               | _             | 132        | 4          | 4        | -1                                      | _        | $\dashv$        | _            | $\dashv$     | $\dashv$          | $\dashv$   | 1            |             |
| ŀ   | -        | 34       | -        |          | Н             | Н        |          | Н        | Н        | ⊢                   | -        |                |      | ⊢        | 84       | Н        |             | Н        | -        | -        |          | ᅫ        | _        |          | Н        |               |               | 133        | -          |          | -                                       | 4        | $\dashv$        |              | -            | 4                 | +          | ⊣            |             |
| ł   |          | 35       | -        |          | Н             | -        | -        | Н        | $\vdash$ | -                   |          | Н              |      | ⊢        | 85       | -        | $\dashv$    | $\dashv$ |          | $\vdash$ | $\dashv$ | $\dashv$ | -        | -        | Н        |               |               | 134<br>135 | -          |          | -4                                      | -1       | -+              |              | -            |                   | +          | 4            |             |
| ł   |          | 36       | -        | $\vdash$ | Н             | _        |          | Н        | -        | Н                   | -        | $\dashv$       |      | H        | 86       | $\dashv$ | $\dashv$    |          |          | $\dashv$ | -        | -1       | $\dashv$ |          | $\dashv$ |               |               | 136        |            |          |   |          | -+              |              |              | -+                | +          | ⊣            |             |
| ł   |          | 37       | -        |          | Н             | -        | -        |          |          | -                   |          | $\dashv$       |      |          | 87       | -        | _           |          | $\dashv$ | $\dashv$ | $\dashv$ |          | -        |          | $\dashv$ |               |               | 137        |            | $\dashv$ | $\dashv$                                | $\dashv$ | $\dashv$        | -            |              | $\dashv$          | +          | $\dashv$     |             |
| ŀ   |          | 38       |          |          | Н             |          | $\vdash$ | $\vdash$ | _        |                     | -        | ┈┤             |      | Н        | 88       | -        | -           | -        | $\dashv$ | $\vdash$ |          |          | $\dashv$ | $\dashv$ | $\vdash$ | l             |               | 138        | $\dashv$   | -        | +                                       | -        | $\dashv$        | $\dashv$     | -+           | -+                | +          | ⊣            |             |
| t   | _'1      | 39       | _        | -        | Н             |          | -        | $\dashv$ |          | Н                   | $\vdash$ | ᅱ              |      | Н        | 89       | $\dashv$ | -           | $\dashv$ | ⊣        |          |          | ᅱ        | $\dashv$ | $\dashv$ | $\dashv$ |               |               | 139        |            | -        | -                                       | -        | $\dashv$        | ┥            | $\dashv$     | +                 | +          | ᅥ            |             |
| ŀ   | -        | 40       | _        | _        |               |          |          | $\vdash$ |          | $\vdash$            |          |                |      | Н        | 90       | $\dashv$ |             |          | $\dashv$ | -        | -        | ᅱ        | -        | $\dashv$ | $\vdash$ |               | $\overline{}$ | 140        | -+         | -        | -                                       | -        | +               | -+           | $\dashv$     | $\dashv$          | +          | $\dashv$     |             |
| ŀ   | _        | 41       | _        | -        | Н             | -        | -        | $\dashv$ | -        | Н                   | $\dashv$ | -{             |      |          | 91       | $\dashv$ | -           | $\dashv$ | $\dashv$ | $\vdash$ | ┥        | -1       |          | -        | $\dashv$ | 1             | _             | 141        | $\dashv$   | $\dashv$ | +                                       | $\dashv$ | $\dashv$        | $\dashv$     | $\dashv$     | +                 | +          | -            |             |
| H   |          | 42       | -        | -        | ┝─┤           | $\dashv$ | $\dashv$ | $\vdash$ | Н        | $\vdash$            | $\dashv$ | $\dashv$       |      | -        | 92       | -        | -           | -        | $\dashv$ | -        | -        |          | -        | -        | $\dashv$ |               |               | 142        | 4          | 4        | $\dashv$                                | 4        | 4               | -            | $\dashv$     | -+                | +          | 4            |             |
| H   | $\dashv$ | 43       | $\dashv$ | -        | $\vdash$      | Н        | $\dashv$ |          | $\dashv$ | $\dashv$            | $\dashv$ | $\dashv$       |      |          | 93       | $\dashv$ | -           | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -        |          |          | ı             |               | 143        | +          | +        | +                                       | $\dashv$ | $\dashv$        | $\dashv$     | -            | +                 | +          | ᅱ            |             |
| ŀ   | $\dashv$ | 44       | $\dashv$ | $\dashv$ | Н             | $\vdash$ | $\dashv$ | $\vdash$ | $\dashv$ | -1                  | -        | $\dashv$       |      | H        | 94       | -        |             | -        | -        | -+       | -        | -        |          | -        | -        | ŀ             | $\rightarrow$ | 144        | $\dashv$   | $\dashv$ | +                                       | $\dashv$ | $\dashv$        | $\dashv$     | -+           | -+                | +          | $\dashv$     |             |
| ŀ   | $\dashv$ | 45       | ┪        | $\dashv$ | Н             | Н        | -1       | +        | -        | $\dashv$            | $\dashv$ |                |      | $\vdash$ | 95       | -        | $\dashv$    | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -        | -        | -        |          | ŀ             |               | 45         | $\dashv$   | +        | +                                       | $\dashv$ | +               | -+           | -            | +                 | +          | $\dashv$     |             |
| ŀ   | _        | 46       | -        | $\dashv$ | $\vdash$      | $\dashv$ |          |          | $\dashv$ | $\dashv$            | $\dashv$ |                |      | Н        | 96       | $\dashv$ | ┪           | -        | $\dashv$ | $\dashv$ | +        | -        | $\dashv$ | $\dashv$ | -        | ł             |               | 46         | +          | -+       | +                                       | +        | +               | -            | $\dashv$     | +                 | +          | $\dashv$     |             |
| t   | _        | 47       | $\dashv$ | $\dashv$ | $\vdash$      |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$            | ᅱ        | $\dashv$       |      | H        | 97       | -        | -           | $\dashv$ | 1        | $\dashv$ | $\dashv$ | -        | -        | +        |          | ł             |               | 147        | +          | +        | $\dashv$                                | -+       | $\dashv$        | -            | -+           | +                 | +          | $\dashv$     |             |
| t   |          | 48       | -        | $\dashv$ | $\vdash$      | $\dashv$ | -        | -        | $\dashv$ | $\forall$           | -        |                |      | -        | 98       | $\dashv$ | $\dashv$    | ┥        | -        | ᅱ        | $\dashv$ | +        | ᅱ        | ᅱ        | $\dashv$ | .             |               | 148        | $\dashv$   | $\dashv$ | $\dashv$                                | $\dashv$ | $\dashv$        | $\dashv$     | $\dashv$     | +                 | +          | $\dashv$     |             |
| t   | _        | 49       | ᅥ        | _        | $\dashv$      | $\dashv$ | $\dashv$ |          | $\dashv$ | $\dashv$            | $\dashv$ | ᅱ              |      | Н        | 99       | ┪        | -           | ᅥ        | -        | $\dashv$ | $\dashv$ | +        | $\dashv$ | ┪        | $\dashv$ | ŀ             | $\rightarrow$ | 149        | $\dashv$   | $\dashv$ | $\dashv$                                | +        | $\dashv$        | $\dashv$     | -+           | +                 | +          | $\dashv$     |             |
| t   | _        | 50       | ╗        | $\neg$   | $\dashv$      | -        | $\dashv$ | $\vdash$ | $\neg$   | $\dashv$            | $\dashv$ | $\dashv$       |      |          | 100      | 7        | ᅱ           | $\dashv$ | $\dashv$ | ᅱ        | $\dashv$ | -+       | -        | $\dashv$ | ⊣        | 1             |               | 50         | +          | +        | -                                       | +        | $\dashv$        | $\dashv$     | $\dashv$     | +                 | +          | ٦            |             |
| _   |          |          | _        | _        | $\rightarrow$ |          |          |          |          |                     |          |                |      |          |          |          |             |          |          |          |          |          |          |          |          |               |               |            |            |          |   |          |                 |              |              |                   |            | _            |             |

If more than 150 claims or 10 actions staple additional sheet here

(LEFT INSIDE)



